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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/389,803      | 09/03/1999  | SATORU MATSUDA       | SONY-Q9095          | 5908             |

29175 7590 07/18/2002  
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EXAMINER

CAO, HUEDUNG X

ART UNIT PAPER NUMBER

2671

DATE MAILED: 07/18/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/389,803

Applicant(s)

MATSUDA, SATORU

Examiner

Huedung X Cao

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2671

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 29 April 2002.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7, 13 and 19 is/are rejected. ~~1-24~~
- 7) ☐ Claim(s) 2-6, 8-12, 14-18, 20-24 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Drawings*

1. The formal drawings were received on 11/05/99. They are approved.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

3. Claims <sup>1-24</sup> ~~1, 7, 13, and 19~~ are rejected under 35 U.S.C. 102 (e) as being anticipated by Matsuda et al. (US 6,405,249 B1).

As per claim 1 and similar claims 7, and 13, Matsuda teaches an information processing apparatus for management of information on objects placed in a 3-dimensional virtual space, said information processing apparatus comprising:

a sensing-area setting means for setting a sensing area used for a sensing object to sense information on one or more sensed objects within said sensing area (col. 17, lines 26-30);

a transmission-area setting means for setting a transmitting area used for transmitting object to transmit information to one or more receiving objects within said transmission area (col. 23, lines 17-23; and col. 23, lines 53-59).

As per claim 2, and similar claims 8, 14, and 20, wherein said transmission area is wider than said sensing area which Matsuda teaches in the process of how to apply a motion (col. 19, line 24-col. 20, line 55).

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As per claim 3, and similar claims 9, 15, and 21, wherein said sensing area is wider than said transmission area which Matsuda teaches in the process of how to apply a motion (col. 19, line 24-col. 20, line 55)

As per claim 4, and similar claims 10, 16, and 22, wherein said transmitting object is said sensing object which Matsuda teaches in the process of how to apply a motion (col. 19, line 24-col. 20, line 55).

As per claim 5, and similar claims 11, 17, and 23, interaction means for exchanging data (col. 33, lines 32-51).

As per claim 6, 12, 18, and 24, the apparatus of claim 1 further comprising: determination means for determining whether said one or more sensed object are within said sensing area, and for determining whether said one or more receiving objects are within said transmission area (col. 33, line 32-col. 34, line 7).

As per claim 19, Matsuda teaches an information processing apparatus for management of information on objects placed in a 3-dimensional virtual space, said information processing apparatus comprising: a storage and a processor (col. 5, lines 56-57; and col. 22, lines 3-21).

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*Inquires*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Huedung Cao** whose telephone number is **(703) 308-5024**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Mark Zimmerman**, can be reached at **(703) 305-9798**.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

**(703) 872-9314 (for Technology Center 2600 only)**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 305-39000377.

Huedung Cao  
Patent Examiner



**CLIFF N. VO**  
PRIMARY EXAMINER